

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: PCT/US04/41380
Source: PCT
Date Processed by STIC: 12-20-07

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 12/20/2004

PATENT APPLICATION: PCT/US04/41380

TIME: 15:37:41

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\12202004\PU41380.raw

4 <110> APPLICANT: Williams, Richard B.
 6 <120> TITLE OF INVENTION: SYSTEM AND METHODS FOR NUCLEIC ACID AND
 7 POLYPEPTIDE SELECTION
 10 <130> FILE REFERENCE: PRONOV.001BPC
 C--> 12 <140> CURRENT APPLICATION NUMBER: PCT/US04/41380
 C--> 12 <141> CURRENT FILING DATE: 2004-12-16
 12 <150> PRIOR APPLICATION NUMBER: 09/859,809
 13 <151> PRIOR FILING DATE: 2001-05-17
 15 <150> PRIOR APPLICATION NUMBER: 60/206,016
 16 <151> PRIOR FILING DATE: 2000-05-19
 18 <150> PRIOR APPLICATION NUMBER: 60/346,965
 19 <151> PRIOR FILING DATE: 2001-11-16
 21 <150> PRIOR APPLICATION NUMBER: 60/529,331
 22 <151> PRIOR FILING DATE: 2003-12-12
 24 <150> PRIOR APPLICATION NUMBER: PCT/US02/37103
 25 <151> PRIOR FILING DATE: 2002-11-18
 27 <150> PRIOR APPLICATION NUMBER: 10/847,087
 28 <151> PRIOR FILING DATE: 2004-05-17
 30 <150> PRIOR APPLICATION NUMBER: 60/625,707
 31 <151> PRIOR FILING DATE: 2004-11-05
 33 <150> PRIOR APPLICATION NUMBER: 10/847,484
 34 <151> PRIOR FILING DATE: 2004-05-17
 36 <160> NUMBER OF SEQ ID NOS: 33
 38 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 40 <210> SEQ ID NO: 1
 41 <211> LENGTH: 13
 42 <212> TYPE: RNA
 43 <213> ORGANISM: Artificial Sequence
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: Precursor RNA for formation of psoralentated RNA;
 47 chemically synthesized fragment
 W--> 49 <221> NAME/KEY: modified_base
 50 <222> LOCATION: (6)...(6)
 51 <223> OTHER INFORMATION: n=p
 W--> 53 <400> 1
 W--> 54 cuagancugg agg
 56 <210> SEQ ID NO: 2
 57 <211> LENGTH: 13
 58 <212> TYPE: RNA
 59 <213> ORGANISM: Artificial Sequence
 61 <220> FEATURE:
 62 <223> OTHER INFORMATION: Furan sided psoralentated RNA fragment; chemically
 63 synthesized

(ps, 6)

13

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W--> 65 <221> NAME/KEY: misc_feature
      66 <222> LOCATION: (2)...(3)
      67 <223> OTHER INFORMATION: psoralen bound to UA
W--> 69 <221> modified_base
      70 <222> LOCATION: (6)...(6)
      71 <223> OTHER INFORMATION: n=p
W--> 73 <400> 2
W--> 74 cuagancugg agg                                     13
      76 <210> SEQ ID NO: 3
      77 <211> LENGTH: 23
      78 <212> TYPE: RNA
      79 <213> ORGANISM: Artificial Sequence
      81 <220> FEATURE:
      82 <223> OTHER INFORMATION: Chemically synthesized precursor RNA for
      83     psoralentated RNA fragment
W--> 85 <221> NAME/KEY: misc_feature
      86 <222> LOCATION: (1)...(5)
      87 <223> OTHER INFORMATION: n=g, a, u, or c
W--> 89 <221> misc_feature
      90 <222> LOCATION: (19)...(23)
      91 <223> OTHER INFORMATION: n=g, a, u, or c
W--> 93 <400> 3
W--> 94 nnnnnccucc agaucuagnn nnn                             23
      96 <210> SEQ ID NO: 4
      97 <211> LENGTH: 23
      98 <212> TYPE: RNA
      99 <213> ORGANISM: Artificial Sequence
     101 <220> FEATURE:
     102 <223> OTHER INFORMATION: Chemically synthesized psoralentated RNA fragment
W--> 104 <221> NAME/KEY: misc_feature
     105 <222> LOCATION: (16)...(17)
     106 <223> OTHER INFORMATION: psoralen bound to UA
W--> 108 <221> misc_feature
     109 <222> LOCATION: (1)...(5)
     110 <223> OTHER INFORMATION: n=g, a, u, or c
W--> 112 <221> misc_feature
     113 <222> LOCATION: (19)...(23)
     114 <223> OTHER INFORMATION: n=g, a, u, or c
W--> 116 <400> 4
W--> 117 nnnnnccucc agaucuagnn nnn                             23
     119 <210> SEQ ID NO: 5
     120 <211> LENGTH: 13
     121 <212> TYPE: RNA
     122 <213> ORGANISM: Artificial Sequence
     124 <220> FEATURE:
     125 <223> OTHER INFORMATION: Chemically synthesized fragment 2; psoralentated
     126     RNA fragment
W--> 128 <221> NAME/KEY: modified_base
     129 <222> LOCATION: (6)...(6)

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RAW SEQUENCE LISTING

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PATENT APPLICATION: PCT/US04/41380

TIME: 15:37:41

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```

130 <223> OTHER INFORMATION: n=p
.W--> 132 <221> misc_feature
133 <222> LOCATION: (13)...(13)
134 <223> OTHER INFORMATION: psoralen bound to G
W--> 136 <400> 5
W--> 137 cuagancugg agg                                     13
139 <210> SEQ ID NO: 6
140 <211> LENGTH: 30
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: chemically synthesized fragment 3; modified tRNA;
146     thymine at residue 8 before pseudouridine
W--> 148 <221> NAME/KEY: modified_base
149 <222> LOCATION: (9)...(9)
150 <223> OTHER INFORMATION: n=p
W--> 152 <221> misc_feature
153 <222> LOCATION: (30)...(30)
154 <223> OTHER INFORMATION: n=puromycin
W--> 156 <400> 6
W--> 157 uccugugtnc gauccacaga auucgcaccn                     30
159 <210> SEQ ID NO: 7
160 <211> LENGTH: 43
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Chemically synthesized fragment 2+3; modified
166     tRNA; thymine at residue 21 before pseudouridine
W--> 168 <221> NAME/KEY: modified_base
169 <222> LOCATION: (22)...(22)
170 <223> OTHER INFORMATION: n=p
W--> 172 <221> misc_feature
173 <222> LOCATION: (43)...(43)
174 <223> OTHER INFORMATION: n=puromycin
W--> 176 <221> modified_base
177 <222> LOCATION: (6)...(6)
178 <223> OTHER INFORMATION: n=p
W--> 180 <400> 7
W--> 181 cuagancugg agguccugug tncgauccac agaauucgca ccn       43
183 <210> SEQ ID NO: 8
184 <211> LENGTH: 33
185 <212> TYPE: RNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Chemically synthesized fragment 1
191 <400> SEQUENCE: 8
192 gccgauuuag cucaguuggg agagcgccag acu                       33
194 <210> SEQ ID NO: 9
195 <211> LENGTH: 76

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196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Chemically synthesized fragment 1 + 2 + 3;
201     modified tRNA; thymine at residue 54 before
202     pseudouridine
W--> 204 <221> NAME/KEY: modified_base
205 <222> LOCATION: (39)...(39)
206 <223> OTHER INFORMATION: n=p
W--> 208 <221> modified_base
209 <222> LOCATION: (55)...(55)
210 <223> OTHER INFORMATION: n=p
W--> 212 <221> misc_feature
213 <222> LOCATION: (76)...(76)
214 <223> OTHER INFORMATION: n=puromycin
W--> 216 <221> misc_feature
217 <222> LOCATION: (35)...(36)
218 <223> OTHER INFORMATION: psoralen binding at UA position
W--> 220 <400> 9
W--> 221 gcggauuuag cucaguuggg agagcgccag acucuaganc uggagguccu gugtnccgauc 60
W--> 222 cacagaauuc gcaccn 76
224 <210> SEQ ID NO: 10
225 <211> LENGTH: 32
226 <212> TYPE: RNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: chemically synthesized fragment 1; 3' hydroxyl at
231     terminus
233 <400> SEQUENCE: 10
234 gcggauuuag cucaguuggg agagcgccag ac 32
236 <210> SEQ ID NO: 11
237 <211> LENGTH: 8
238 <212> TYPE: RNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: chemically synthesized fragment 2; psoralentated
243     RNA
W--> 245 <221> NAME/KEY: modified_base
246 <222> LOCATION: (1)...(1)
247 <223> OTHER INFORMATION: N=p
W--> 249 <221> modified_base
250 <222> LOCATION: (7)...(7)
251 <223> OTHER INFORMATION: N=p
W--> 253 <400> 11
W--> 254 ncuaacnc 8
256 <210> SEQ ID NO: 12
257 <211> LENGTH: 36
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence

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PATENT APPLICATION: PCT/US04/41380

TIME: 15:37:41

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Output Set: N:\CRF4\12202004\PU41380.raw

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261 <220> FEATURE:
262 <223> OTHER INFORMATION: Mixed DNA/RNA chemically synthesized fragment 3
W--> 264 <221> NAME/KEY: modified_base
265 <222> LOCATION: (15)...(15)
266 <223> OTHER INFORMATION: n=p
W--> 268 <221> misc_feature
269 <222> LOCATION: (36)...(36)
270 <223> OTHER INFORMATION: n=puromycin
W--> 272 <400> 12
W--> 273 uggaggguccu gugtnCGauc cacagaaUuc gcaccn 36
275 <210> SEQ ID NO: 13
276 <211> LENGTH: 18
277 <212> TYPE: RNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: chemically synthesized modified RNA fragment
W--> 283 <221> NAME/KEY: modified_base
284 <222> LOCATION: (4)...(4)
285 <223> OTHER INFORMATION: n=p
W--> 287 <221> modified_base
288 <222> LOCATION: (11)...(12)
289 <223> OTHER INFORMATION: n=p
W--> 291 <400> 13
W--> 292 cccnccagag nnagaccc 18
294 <210> SEQ ID NO: 14
295 <211> LENGTH: 14
296 <212> TYPE: RNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: chemically synthesized fragment 2
W--> 302 <221> NAME/KEY: modified_base
303 <222> LOCATION: (7)...(7)
304 <223> OTHER INFORMATION: n=p
W--> 306 <221> modified_base
307 <222> LOCATION: (9)...(9)
308 <223> OTHER INFORMATION: n=p
W--> 310 <400> 14
W--> 311 ucuaagncng gagg 14
313 <210> SEQ ID NO: 15
314 <211> LENGTH: 73
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: chemically synthesized; mixed DNA/RNA; alternate
320 psoralentated Fragment 1 + 2 + 3
W--> 322 <221> NAME/KEY: modified_base
323 <222> LOCATION: (32)...(32)
324 <223> OTHER INFORMATION: N-3-methyl uridine
W--> 326 <221> misc_feature

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: PCT/US04/41380

DATE: 12/20/2004
TIME: 15:37:42

Input Set : A:\Seqlist.txt
Output Set: N:\CRF4\12202004\PU41380.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6
Seq#:2; N Pos. 6
Seq#:3; N Pos. 1,2,3,4,5,19,20,21,22,23
Seq#:4; N Pos. 1,2,3,4,5,19,20,21,22,23
Seq#:5; N Pos. 6
Seq#:6; N Pos. 9,30
Seq#:7; N Pos. 6,22,43
Seq#:9; N Pos. 39,55,76
Seq#:11; N Pos. 1,7
Seq#:12; N Pos. 15,36
Seq#:13; N Pos. 4,11,12
Seq#:14; N Pos. 7,9
Seq#:15; N Pos. 32,40,42,73
Seq#:17; N Pos. 1,7
Seq#:18; N Pos. 15,36
Seq#:19; N Pos. 9,10,11
Seq#:28; N Pos. 33,34
Seq#:30; N Pos. 1,2,3,4,5,6,9,10,11,15,16,17,18,19,20,21
Seq#:31; N Pos. 15,36
Seq#:32; N Pos. 15
Seq#:33; N Pos. 32,39,41,72

VERIFICATION SUMMARY

DATE: 12/20/2004

PATENT APPLICATION: PCT/US04/41380

TIME: 15:37:42

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\12202004\PU41380.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:49 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:53 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:65 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:73 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:85 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:89 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:93 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:104 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:108 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:112 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:116 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:128 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:132 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:136 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:148 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:152 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:156 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:168 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:172 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:176 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:180 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:204 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:208 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:212 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:216 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:220 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60
L:245 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:249 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:253 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:264 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:268 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:272 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:283 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:287 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13

VERIFICATION SUMMARY

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TIME: 15:37:42

Input Set : A:\Seqlist.txt

Output Set : N:\CRF4\12202004\PU41380.raw

L:291 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:302 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:306 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:310 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:322 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:326 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:330 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:334 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:338 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:342 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60
L:367 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:371 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:375 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:386 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:390 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:394 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:405 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:409 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:442 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:446 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:457 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:461 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
L:472 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:476 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:480 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:491 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:495 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25
L:499 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25
L:503 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25
L:514 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:518 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:26
L:541 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:545 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28
L:549 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28
L:553 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:578 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:582 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:586 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:590 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:601 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

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TIME: 15:37:42

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\12202004\PU41380.raw

L:605 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:31
L:609 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:31
L:613 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:31
L:617 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:31
L:618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:628 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:632 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:636 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:640 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:644 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:656 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:660 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33
L:664 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33
L:668 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33
L:672 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33
L:676 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:33
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:60